PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference IH-160	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No.	International filing date (day/month/ye	ear) Priority date (day/month/year)		
PCT/JP2005/002351	16.02.2005	18.02.2004		
International Patent Classification (IPC) or n	ational classification and IPC			
	C07D401/04, A01N43/56, A61K31/4439, A61P33/02, A61P33/06, A61P33/10, A61P33/12, A61P33/14			
==	Applicant ISHIHARA SANGYO KAISHA, LTD.			
	liminary examination report, established the applicant according to Article 36.	by this International Preliminary Examining Authority		
2. This REPORT consists of a total of	sheets,	including this cover sheet.		
3. This report is also accompanied by				
a. (sent to the applicant a	nd to the International Bureau) a total of	sheets, as follows:		
sheets of the desc	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative			
sheets which supe	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental			
		d words a fall density associated		
S. (Sem to the marmation.)	al Bureau only) a total of (indicate type an	in number of electronic carrier(s))		
related thereto, in compu	tar readable form only as indicated in th	, containing a sequence listing and/or tables to Supplemental Box Relating to Sequence Listing (see		
Section 802 of the Admir	•	e Supplemental Box Relating to Sequence Elisting (see		
4. This report contains indications rel	ating to the following items:			
Box No. I Basis of t	he report			
Box No. II Priority				
Box No. III Non-esta	blishment of opinion with regard to novel	y, inventive step and industrial applicability		
Box No. IV Lack of t	nity of invention			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited				
Box No. VII Certain d	efects in the international application			
Box No. VIII Certain observations on the international application				
Date of submission of the demand	Date of complete	tion of this report		
		•		
Name and mailing address of the IPEA/JP	Authorized offi-	cer		
Facsimile No.	Telephone No.			

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Box	No. I	I Basis of the report		
1.		h regard to the language, this report is based on the internationated under this item.	onal application in the language in which it was filed, unless other	rwise
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b))			
		publication of the international application (Rule 12.	4)	
		international preliminary examination (Rule 55.2 and	Wor 55.3)	
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):			
		the international application as originally filed/furnished the description:		
	Ш	•		
			as originally filed/furcecived by this Authority on	
		•	received by this Authority on	
	П		received by this radiiotry on	
	Ш	the claims:		
		nos.		
			as amended (together with any statement) under Ar	
			received by this Authority on	
	$\overline{}$	nos.*	received by this Authority on	
	Ш	the drawings:		
		sheets	as originally filed/fu	ırnished
			received by this Authority on	
		sheets*	received by this Authority on	
		a sequence listing and/or any related table(s) – see Suppler	nental Box Relating to Sequence Listing.	
3.		The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos.		
		the sequence listing (specify):		
4.			dments annexed to this report and listed below had not been ma	ade, since
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		any table(s) related to sequence listing (specify):		
*	If ite	em 4 applies, some or all of those sheets may be marked "sup	perseded."	

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Box No. Il	II Non-establishment of opinion	on with regard to novelty, inventive step and industrial ap	plicability	
	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:			
	the entire international application			
	claims Nos. 21			
becaus	e:			
	the said international application, or the said claims Nos. 21 relate to the following subject matter which does not require an international preliminary examination (specify):			
	The scope o	f claim 21 includes methods	for	
	controlling pests	within the human body, whi	ch is to	
	say methods for t	he treatment of the human b	ody by	
	means of therapy	(refer to Article 34(4)(a)(i) of the	
	PCT and Rule 67.1	(iv) of the Regulations und	er the	
	PCT).			
	the description, claims or drawings (in are so unclear that no meaningful opin	ndicate particular elements below) or said claims Nos nion could be formed (specify):		
	the claims, or said claims Nos. by the description that no meaningful	opinion could be formed.	are so inadequately supported	
\boxtimes	no international search report has beer	n established for said claims Nos. 21		
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrations in that:			
	the written form	has not been furnished		
		does not comply with the standard		
	the computer readable form	has not been furnished		
		does not comply with the standard		
		nd/or amino acid sequence listing, if in computer readable in Annex C-bis of the Administrative Instructions.	form only, do not comply with the	
	See Supplemental Box for further deta	ills.		

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Box	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims	1-20	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-20	NO
	Industrial applicability (IA) Claims	1-20	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

The opinion expressed in the present report is based on the disclosures in each of the following documents, which are cited in the international search report.

- Document 1: WO 03/024222 A1 (E. I. Du Pont de Nemours and Co.)
- Document 2: WO 03/015518 A1 (E. I. Du Pont de Nemours and Co.)
- Document 3: WO 03/015519 A1 (E. I. Du Pont De Nemours and Co.)
- Document 4: JP 2003-528070 A (E. I. Du Pont De Nemours and Co.)
- Document 5: JP 11-240857 A (Nihon Nohyaku Co., Ltd.)
- Document 6: JP 2003-176258 A (Ishihara Sangyo Kaisha, Ltd.)

Claims 1 to 20

Documents 1 to 4 (claims, examples) disclose anthranilamide derivatives that exhibit a pest controlling action, and also disclose methods for the production thereof. A comparison of the invention set forth in claim 1 and the inventions disclosed in

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

documents 1 to 4, however, revealed that claim 1 stipulates that the terminal substituent group (A) be an alkyl group that has been substituted with a substitutable C_{3-4} cycloalkyl group, whereas documents 1 to 4 stipulate that the groups at the corresponding sites be substituted with a cycloalkyl group or an alkyl group without mentioning substituent groups like those in the former invention; likewise, this comparison also revealed that the present application presents specific applications for the derivatives in question (e.g., the prevention and/or treatment of zoonoses caused by parasites), whereas documents 1 to 4 do not mention the applications in question. Such being the case, the abovementioned inventions are different.

However, document 5 discloses phthalic acid diamide derivatives that have chemical structures similar to the structures of the compounds disclosed in documents 1 to 4, wherein the alkyl group in question has been substituted with a C_{3-4} cycloalkyl group (for example, refer to composition "No. 860"), and document 5 goes on to disclose similar applications for said derivatives. Such being the case, it cannot be said to require significant creative abilities for a person skilled in the art to conceive of attempting to substitute the substituent groups disclosed in document 5 for the cycloalkyl group or alkyl group in the compounds disclosed in documents 1 to 4 with the expectation of improving the pest controlling action thereof. Likewise, it cannot be said to require significant creative abilities for a person skilled in the art to conceive of combining the cycloalkyl groups or alkyl groups disclosed in documents 1 to 4 in an attempt to form alkyl groups

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that have been substituted with a substitutable C_{3-4} cycloalkyl group.

With regards to the specific applications of the derivatives, techniques wherein pest controllers are applied in order to prevent and/or treat zoonoses caused by parasites are well known to a person skilled in the art, as disclosed in document 6; therefore, it cannot be said to be especially difficult for a person skilled in the art to conceive of attempting to use the abovementioned compounds in such an application.

Consequently, the inventions set forth in claims 1 to 20 do not involve an inventive step in the light of the disclosures in documents 1 to 6.

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Box	No. VI Certain documents cited				
1.	Certain published documents (Rule 70.10)				
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)	
	WO 2004/067528 A1	12.08.2004	21.01.2004	28.01.2003	
	[E, Y]				
2.	Non-written disclosures (Rule 70.9)				
				e of written disclosure	
	Kind of non-written disclosure	sure Date of non-written disclosure referring to		to non-written disclosure day/month/year)	